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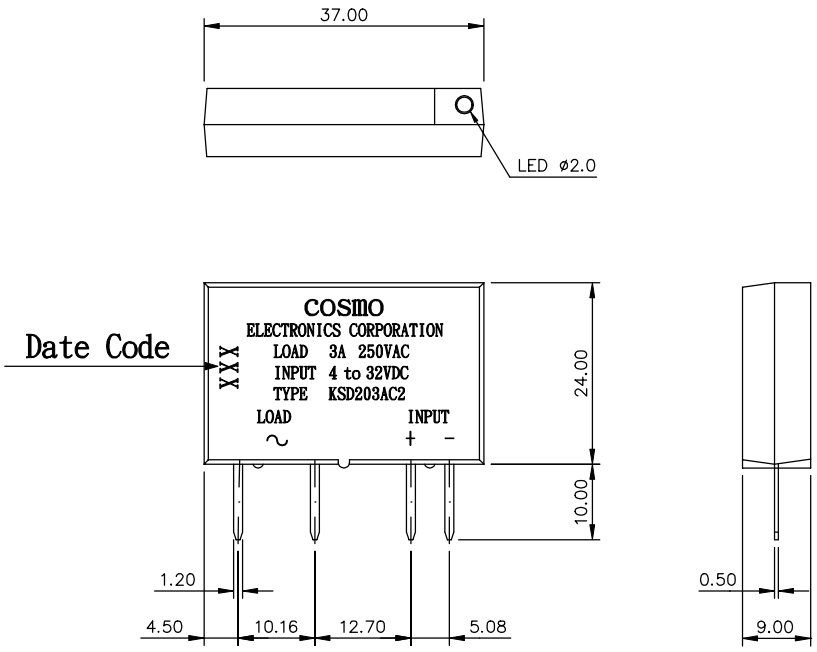
Jameco Part Number 153058

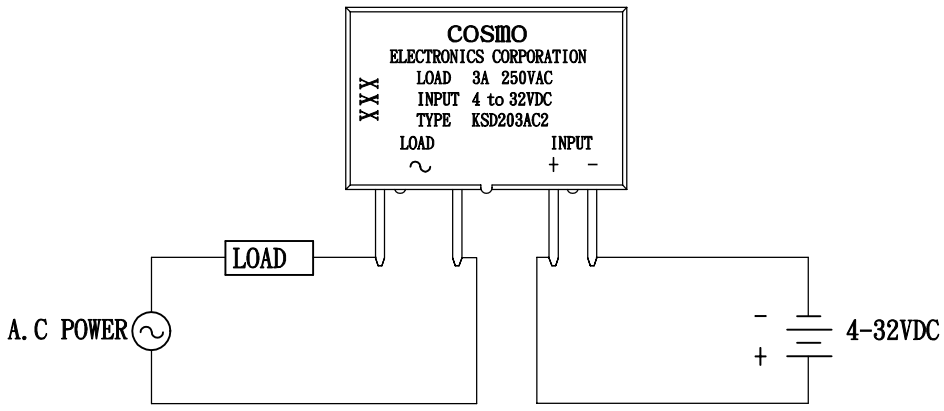
PRODUCT SPECIFICATION

COSMO ELECTRONICS CORPORATION	SOLID STATE RELAY: KSD203AC2	SHEET 1 OF 2

1. OUTSIDE DIMENSION : UNIT (mm)



2. SCHEMATIC : TOP VIEW



PRODUCT SPECIFICATION

COSMO ELECTRONICS CORPORATION	SOLID STATE RELAY: KSD203AC2	SHEET 2 OF 2

3. Absolute Maximum Ratings (Ta=25℃)

Parameter		Symbol	Rating	Unit
Input	Input signal voltage	V_{IN}	4~32	VDC
	Drop-out voltage	Vdo	1	VDC
Output	RMS on-state current	I_T	3	Arms
	Peak one cycle surge current	Isurge	30	A
	Repetitive peak-off state voltage	V_{DRM}	600	V
	Operating frequency	f	47~70	Hz
	Critical rate of rise of on-state current	di/dt	50	A/uS
	Load supply voltage	Vout	250	Vrms AC
Isolation voltage input to output		Viso	4000	Vrms
Operating temperature		Topr	-30~100	℃
Storage temperature		Tstg	-30~125	℃
Soldering temperature 10 sec		Tsol	260	℃

4. Electrical Characteristics (Ta=25℃)

Parameter		Symbol	Conditions	MIN	TYP	MAX	Unit
Input	Pick-up voltage	Vpu	It=1Arms			4	VDC
	Input current	Iin	Vin=4~32V	5		12	mA
Output	On-state voltage	V_T	I_T=1Arms			1.5	Vrms
	Operating current	Iop	Vout=240vrms	50			mArms
	Leakage current	Ileak	Vout=240vrms			7	mArms
	Critical rate of rise of off-state voltage	dv/dt	See Note 1	50	200		V/us
	Zero-cross voltage	Vox	Iin=7mA			35	VAC
	Load Voltage Rating	Vout	I_T =50mArms MIN	50		280	VAC
Minimum trigger current		I_{FT}	V_{DRM}=600V			10	mA
Isolation resistance input to output		R_{ISO}	DC500V	10^{10}			Ω
Turn-on time		Ton	60Hz AC			8.3	mS
Turn-off time		Toff	60Hz AC			8.3	mS
Thermal resistance (between junction and case)		Rth (j-c)1			1.3		℃/W